

WHAT IS CLAIMED IS:

1. An improved supporting structure for a planar heat pipe, comprising:
a housing, including an upper lid and a lower lid engaged with each other
to form a hollow chamber allowing a work fluid to be introduced therein; and
5 a support member, includes a planar member perforated with a plurality of
perforation regions, the support member being sintered with the upper and the
lower lids in the hollow chamber by power metallurgy.
2. The structure according to Claim 1, wherein the perforation regions
are in fluid communication with each other.
- 10 3. The structure according to Claim 1, wherein perforation regions
includes a first perforation region located at a center of the planar member, a
plurality of second perforation regions extending around the first perforation
region, and a plurality of third perforation regions extending between the second
perforation region and a periphery of the planar member.
- 15 4. The structure according to Claim 3, wherein the second perforation
regions extend as a cross to define four diagonal areas for forming the third
perforation regions, and the planar member further comprises a plurality of ribs
to isolate the first, second and third perforation regions from each other, each of
the ribs comprises a channel recessed from a top surface of the rib to provide the
20 fluid communication.